

**MATERIAL SAFETY DATA SHEET**

Gardner Asphalt Corporation P.O. Box 5449 Tampa, FL 33675

A. IDENTIFICATION AND EMERGENCY INFORMATION

Product Name: Asphalt & Concrete Cleaner

Product Code: 8470

Chemical Name: Ethylene Glycol Mixture

CAS Number: N/A A
Complex
Mixture

Product Appearance and Odor: An orange or bluegreen water like liquid with a strong chemical odor.

Emergency Telephone Number: CHEMTREC 1-800-424-9300

B. COMPONENTS AND HAZARD INFORMATION

<u>Components</u>	<u>CAS No.</u>	<u>ACGIH TLV</u>	<u>Approximate Concentration</u>
Water	7732-18-5	Not Hazardous	Greater than 80%
Nonyl Phenol + 9.5 moles Ethylene Oxide.	Not Established	No Known Hazards	Less than 5%
Blue/Green Dye (Proprietary)	Unknown	No Known Hazards	Less than 1%
n-Butyl Ether	000111-73-2	25 ppm	Less than 10%
Sodium Metasilicate	6834-92-0	Not Established	Less than 5%
Hydroxyethyl Cellulose	9004-62-0	Not Established	Less than 1%

Hazardous Materials Identification System: (HMIS)**Health**

1

Flammability

1

Reactivity

0

BasisRecommended
By Gardner
Asphalt

C. PRIMARY ROUTES OF ENTRY AND EMERGENCY & FIRST AID PROCEDURE

Eye Contact: This product contains components which can cause severe eye irritation and may result in permanent damage. If eye contact should occur flush eyes with copious quantities of water for at least 15 minutes. Seek medical attention immediately.

Skin Contact with skin may cause severe burns if not removed. Remove contaminated clothing. Immediately wash affected area with mild soap and water. If irritation persists, seek medical attention.

Inhalation Prolonged or repeated inhalation may cause adverse effects and cause irritation to upper respiratory tract and lungs. If excessive inhalation occurs, remove individual to fresh air. If breathing ceases, administer artificial respiration and seek medical attention immediately.

Ingestion: Ingestion of this product may cause severe burning and pain in lips, mouth, tongue, throat and stomach. Severe scarring and death may result, depending on the quantity consumed. If ingestion occurs, and individual is conscious, give large quantities of water. DO NOT INDUCE VOMITING. Seek Medical attention.

Flash Point (Minimum):

150 degrees F. (TCC)

Autoignition Temperature (Dry Film):

Not Established

National Fire Protection Association (NFPA) - Hazard Identification**Health**

1

Flammability

1

Reactivity

0

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Handling Precaution Keep containers tightly closed. Keep containers in a cool dry place. Minimize skin contact.

Flammable or Explosive Limits: (Approximate percent by volume in air)

Lower (LEL) 10.6 % Vol. (solvent

Upper (UEL) 1.1 % Vol.

Extinguishing Media and Fire Fighting Procedures:

Fire fighters should wear self-contained positive-pressure breathing apparatus and avoid skin contact. Use alcohol foam, carbon dioxide, or dry chemical extinguishing media.

Decomposition Products under Fire Conditions:

None Known

Empty Container Warning:

Dispose of in an environmentally safe manner and in accordance with governmental regulations. "Empty" containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF IGNITION, THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. For work on tanks, refer to OSHA regulation ANSI Z49.1 and other governmental and industrial references pertaining to cleaning, repairing, welding or other contemplated operations.

E. HEALTH AND HAZARD INFORMATION

Variability Among Individuals:

Health studies have shown that individual sensitivities vary from person to person. As a precaution, exposure to vapors, liquids, mists, or fumes should be minimized.

Effects of Overexposure:

(Signs and symptoms of exposure) Excessive exposure may cause blood, lung, liver, and kidney effects.

PC: 8470

Nature of Hazard and Toxicity Information:

Certain components have the following LD50 ratings:

n-Butyl Ether: Oral LD50 (rat): 470 mg/kg

Inhalation LD50 (rat): 700 ppm

Absorption LD50 (rat): 220 mg/kg

Skin

Pre-existing Medical Conditions Which May be Aggravated by Exposure:

Persons with upper respiratory or skin disease should avoid contact with this product.

F. PHYSICAL DATA

The following are approximate or typical values and should not be used for precise design purposes

Boiling Range :

Greater than 212 degrees F.

Vapor Pressure :

Approx. 0.88 mm Hg @ 25 deg. C.

Specific Gravity :

Approx. 0.99-1.02

Vapor Density :

Heavier than air

Molecular Weight :

N/A A Complex Mixture.

Percent Volatile by Volume:

less than 10%

pH :

Approx. 11

Evaporation Rate @ 1 ATM & 25 deg C (77 deg F)

Slower than ether

Pour Congealing or Melting Point

Similar to Water

Solubility in Water @ 77 deg. F.

Complete

Viscosity:

Approximately 0-500 cps @ 77 degrees F.

G. REACTIVITY

This product is stable and will not violently react with water. Hazardous polymerization will not occur. Avoid heat or open flame and strong oxidizers such as chlorinated hydrocarbons, acetaldehyde, acrolein, chlorine trifluoride and strong oxidizing agents.

H REGULATORY / ENVIRONMENTAL INFORMATION

Steps to be taken in case material is released or spilled:

Evacuate all unnecessary personnel. Dike spill and eliminate potential sources of ignition. Wear appropriate respiration and other protective clothing. Absorb with inert material and collect for disposal. Flush with water and prevent washing from entering waterways.

SARA Title III Section 313 - Toxic Chemicals

Not Established

SARA Title III Section 311 - Hazard Categories

Not Established

SARA Title III Section 302(a) - Extremely Hazardous Substances

Not Established

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act Section 102 Hazardous Substances, 42 U.S.C. 9602

Not Established

EPA Hazard Classification Code:

Acute

Chronic

Fire

Pressure

Reactive

Not Applicable

XXX

I. PROTECTION AND PRECAUTION

Ventilation:

Use only with ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air. Use explosion-proof equipment. No smoking or open lights.

Respiratory Protection:

Air concentrations of fumes determine the level of protection needed. Use only NIOSH approved respiratory equipment within the limits of the protection factors for that equipment.

Protective Gloves:

Use protective chemical resistant gloves such as neoprene, PVC, or nitrile-butadiene rubber gloves.

Eye Protection:

Safety glasses, splash goggles or face shield should be used. **CONTACT LENSES SHOULD NOT BE WORN WHEN WORKING WITH THIS MATERIAL.**

Other Protective Equipment:

Employees who have prolonged or repeated exposure should wear gloves and clothing/apron that is impervious to components, to avoid contaminating clothing which could result in prolonged or repeated skin contact.

Work Practices:

Keep containers tightly closed when not in use. Avoid inhalation of mist/vapors and skin and eye contact.

Personal Hygiene:

Employees who handle this material should cleanse hands thoroughly before eating and smoking. Minimize breathing vapors or mist. Remove contaminated clothing, launder or dry clean before reuse. Remove contaminated shoes and thoroughly clean and dry before use. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.

J.**TRANSPORTATION INFORMATION**

Transportation Incident Info:

For further information relative to spills resulting from transportation incidents, refer to latest Department of Transportation Guidebook for Hazardous Materials Incidents, DOT P 5800.3.

DOT Identification Number:

Not Established

The information and recommendations contained herein are to the best of Gardner Asphalt's knowledge and belief, accurate and reliable as of the date issued. Gardner Asphalt does not warrant or guarantee their accuracy or reliability, and Gardner Asphalt shall not be liable for any loss or damage arising out of the use thereof.

This information and recommendations are offered for the users consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use.

The environmental information included in Section H hereof as well as the Hazardous Materials Identification System (HMIS) and National Fire Protection Association (NFPA) ratings have been included by Gardner Asphalt Corporation in order to provide additional health and hazard classification information. The ratings are based upon the criteria supplied by the developers of these ratings systems, together with Gardner Asphalt's interpretation of the available data.

For Other Product Information Contact:

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